# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 2 | "20050006635" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/14 14:31 |
| S2 | 6 | (("5122845") or ("4855249") or ("6566218")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/07/20 13:39 |
| S3 | 3 | "2002043223" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/20 13:34 |
| S6 | 40 | @ad<="20040326" and ("'ZrB.sub.2'" or "'TiB.sub.2'") with 'substrate' and 'buffer' same ('AlN' or 'GaN') and 'electrodes' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/14 08:30 |
| S7 | 48 | @ad<="20040326" and ("'ZrB.sub.2'" or "'TiB.sub.2'") with 'substrate' and 'buffer' same ('AlN' or 'GaN') | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/20 14:06 |
| S8 | 4654 | @ad<="20040326" and (257/103).ccls. or (257/13-14).ccls. or (257/22).ccls. or (257/79).ccls. or (257/103).ccls. (117/97).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 09:47 |
| S9 | 154 | @ad<="20040326" and (257/11).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/20 13:50 |
| S12 | 31 | @ad<="20030326" and ("ZrB.sub.2" or "TiB.sub.2") with 'substrate' and 'buffer' same ('AlN' or 'GaN') | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/20 15:55 |
| S13 | 0 | @ad<="20030326" and 'buffer' same "AlN.sub.x.GaN.sub.1-x." | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/20 15:56 |
| S14 | 0 | @ad<="20030326" and 'buffer' same "AlN.sub.xGaN.sub.1-x" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/20 15:57 |

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| S15 | 0 | @ad<="20030326" and 'buffer' same "AlN.sub.yGaN.sub.1-y" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/20 15:57 |
| S16 | 0 | @ad<="20030326" and 'buffer' same "AlN.sub.y.GaN.sub.1-y" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/20 15:57 |
| S17 | 0 | @ad<="20030326" and 'buffer' same 'AlN' adj1 'x' adj1 'GaN' "adj1. '1-x'" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/20 15:58 |
| S18 | 1 | @ad<="20030326" and 'AlN' adj1 'x' adj1 'GaN' "adj1.'1-x'" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/20 15:59 |
| S19 | 0 | @ad<="20030326" and 'AlN' adj1 'y' adj1 'GaN' "adj1.'1-y'" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 07:52 |
| S21 | 153 | @ad<="20030326" and 'mismatch' same 'AlN' with 'GaN' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 08:30 |
| S23 | 121 | @ad<="20030326" and 'lattice mismatch' same 'AlN' with 'GaN' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 07:56 |
| S24 | 3 | @ad<="20030326" and 'lattice mismatch' same 'AlN' with 'GaN' and "ZrB.sub.2" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 08:04 |
| S25 | 2 | @ad<="20030326" and 'lattice mismatch' same 'AlN' with 'GaN' and "TiB.sub.2" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 08:04 |
| S26 | 2 | @ad<="20030326" and 'lattice mismatch' same 'AlN' near 'GaN' and "TiB.sub.2" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 08:04 |
| S27 | 81 | @ad<="20030326" and 'Al' near1 'N' near1 'Ga' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 08:56 |

# EAST Search History

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| S28 | 0 | @ad<="20030326" and 'Al' near1 'N' near1 'Ga' near 'buffer' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 08:31 |
| S29 | 5 | @ad<="20030326" and 'Al' near1 'N' near1 'Ga' same 'buffer' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 08:33 |
| S30 | 15 | @ad<="20030326" and "Al.sub.x" near1 'N' near1 "Ga.sub.y" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 08:53 |
| S31 | 0 | @ad<="20030326" and 'Al' near1 'N' near1 'Ga' and "'ZrO.sub.2'" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/21 08:56 |
| S32 | 0 | @ad<="20040326" and ("'ZrB.sub.2'" or "'TiB.sub.2'") with 'deposition' same 'angle' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:14 |
| S33 | 2 | @ad<="20040326" and ("'ZrB.sub.2'" or "'TiB.sub.2'" or "HfB.sub.2" or "NbB.sub.2") same 'deposition' same 'angle' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:19 |
| S34 | 1 | @ad<="20040326" and 'diboride' same 'normal line' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 09:02 |
| S35 | 30 | @ad<="20040326" and 'diboride' same 'angle' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:31 |
| S36 | 2 | @ad<="20040326" and 'diboride' and 'deviation angle' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:35 |
| S37 | 3 | @ad<="20040326" and 'diboride' and 'deviation' with 'angle' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:33 |
| S38 | 289 | @ad<="20040326" and (257/E21. 119).ccls. or (257/E21.136).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:36 |

| S39 | 857 | @ad<="20040326" and 'substrate' same 'normal line' same 'angle' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:42 |
|-----|-----|-----|-----|-----|-----|-----|
| S40 | 647 | @ad<="20040326" and 'substrate' same 'normal line' with 'angle' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:50 |
| S41 | 0 | @ad<="20040326" and 'substrate' same 'boride' same 'normal line' with 'angle' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:43 |
| S42 | 1 | @ad<="20040326" and 'substrate' same 'normal line' same 'angle' same "'0.55'" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:50 |
| S43 | 4 | @ad<="20040326" and 'normal line' same 'angle' same "'0.55'" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:51 |
| S44 | 1 | ('diboride' and 'normal line' and 'angle').clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:54 |
| S45 | 31 | ('diboride' and 'angle').clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 14:49 |
| S47 | 1 | @ad<="20040326" and 'diboride' same 'normal line' with 'angle' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 09:03 |
| S48 | 1 | @ad<="20040326" and 'diboride' and 'normal line' with 'angle' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 09:03 |
| S49 | 269 | @ad<="20040326" and (257/189). ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 09:47 |
| S50 | 502 | @ad<="20040326" and (257/190). ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 09:48 |

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| S51 | 957 | @ad<="20040326" and (257/200). ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 09:54 |
| S52 | 287 | @ad<="20040326" and (257/183). ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 09:48 |
| S53 | 373 | @ad<="20040326" and (257/201). ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 09:54 |
| S54 | 2 | "ep 1213767" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:54 |
| S55 | 2 | "ep 1176231" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:55 |
| S56 | 2 | "ep 1263031" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 14:33 |
| S57 | 2 | "ep 1276140" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:56 |
| S60 | 8 | (("6583468") or ("6566218") or ("6830948") or ("6709513")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 14:35 |
| S61 | 31 | "isamu akasaki" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 14:48 |
| S63 | 32 | ('diboride' and 'angle').clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 14:54 |

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| S64 | 32 | ("diboride" and "angle").clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 14:51 |
| S65 | 322 | Akasaki-Isamu.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 14:51 |
| S66 | 9 | Akasaki-Isamu.in. and diboride | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 14:51 |
| S67 | 0 | "diboride" same buffer same angle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 14:54 |
| S68 | 4 | "diboride" and buffer same angle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 15:02 |
| S70 | 28 | "AIN" same buffer same angle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 15:05 |
| S71 | 69 | "substrate surface" same buffer same angle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 15:07 |
| S72 | 27 | "BAUER MARKUS" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 15:07 |
| S73 | 12 | @ad<="20040326" and ("ZrB.sub.2" or "TiB.sub.2") with substrate and (buffer same "AIN" or "GaN") same angle | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/14 12:43 |
| S74 | 853 | @ay<="1999" and contact with pad with stack$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/14 16:30 |
| S75 | 17 | S74 and lead with copper with gold | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/14 16:20 |

| S76 | 0 | @ay<="1999" and "metal stacked" with aluminum with lead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/14 16:31 |
|-----|---|---|---|---|---|---|
| S77 | 0 | @ay<="1999" and "metal stacked" with nickle with lead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/14 16:31 |
| S78 | 22 | @ay<="1999" and metal with stack$3 with copper with lead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/14 16:31 |
| S79 | 12 | ("20020081463" \| "20020104998" \| "20020105004" \| "20020113249" \| "20020117961" \| "20020123246" \| "20020125491" \| "20020149028" \| "20020175389" \| "20020190275" \| "5225275").PN. OR ("6566218"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/14 08:22 |
| S80 | 27 | @ad<="20040326" and ("'ZrB.sub.2'" or "'TiB.sub.2'") and buffer same "AIN" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/14 08:31 |
| S81 | 22 | @ad<="20040326" and substrate same ("'ZrB.sub.2'" or "'TiB.sub.2'") and buffer same "AIN" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/14 08:31 |

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